Appendix A Communications Planning Guide

The signal staff planning process has evolved continually for each of the BOSs. The signal officer must understand what steps and methods make a good, timely staff product that supports the 1/3 - 2/3 rule of planning. Staff estimate planning should always include all assets and not be done in a vacuum. Signal planning must be coordinated with all staff elements that support an operation. Each of the staff supports a different BOS and collectively the BOSs support a combined arms effort that is integrated and synchronized to support an objective. When the commander issues his initial guidance, he is giving his intent (the big picture) on how to accomplish the mission. The XOs job is to maintain control of the staff. He—

- Established a time line for staff planning that supports the 1/3 2/3 rule of planning.
 - Establishes rehearsal times.
- Is responsible for backward planning and completing a good staff product.
- Is the timekeeper once the staff planning process begins and adjusting the process when necessary.
- Is responsible for keeping the staff focused on each planning step.

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A normal time line covers the following areas:

Receive the Order from Higher.

Mission Analysis. Conduct initial mission analysis to include specified and implied tasks. (Individual, staff then collectively.)

Initial Intelligence Preparation of the Battlefield (IPB) Process. Does the staff underatand what the threat is and how it effects each of the BOSs?

Commanders Guidance. This is when the staff states whether their BOS can support the mission. This is really the staff estimate. After the commander has all the staffs input, he then issues further clarifying guidance and refocuses on his intent on how he sees the mission being executed and what he thinks is or will be critical.

Develop Courses of Action. Look at and develop the three or four moat logical means of accomplishing the mission, for example, right, left, or up the middle.

Analyze Courses of Action. As a staff collectively and hypothetically resource and execute each mission course of action (COA) and determine its validity, risk, and chances of success. A decision matrix may be used to verify or support the staffs recommendation of a particular COA to the commander.

Decision Briefing. To select a final COA that will be further wargamed and developed by the staff and turned into the final plan/order that is issued to subordinate units.

Wargame. This is the most critical part of developing an operation. The XO and staff are tasked to coordinate each BOS and to ensure that their individual staff planning supports the operation/mission. Further, they must ensure their planning does not conflict or hinder any other BOSs operation on the ground/air. Offensive operations are usually planned in phases, but, whatever technique is used coordination is the key. An example of poor wargaming and resource synchronization would be if on a particular mission a key piece of elevated terrain sat at or just behind the forward line of own troops (FLOT). During the execution of the mission, several different separate teams tried to occupy this piece of terrain at the same time and it was only large enough physically and electronically for one of the teams to occupy. This lack of specific coordination may cost the successful employment of several key systems to support the combined arms fight. Do a risk assessment to determine the degree of risk involved in mission accomplishment. See Appendix D.

Publish the Order. Have a method to copy and disseminate quickly.

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Issue the Order. The commander, XO, and/or the S3 briefs to subordinate units what the mission is and how it is going to be executed from brigade level. At this point only 1/3 of the available time should be used up if the XO/S3 did his job.

Backbrief. Done by subordinate commanders to ensure the commanders intent is understood. Subordinate commanders explain their mission and how they are going to execute it (if possible actually talking it out on the ground close to a scale terrain model of the area of operation.) The staff also briefs how their particular BOS will support and any critical points to watch for.

Rehearsal. Done at all levels - brigade down to individual teams. This is sometimes done with the backbrief to verify what was briefed by the commander and usually by phase of an operation. The most dangerous thing that can happen during the rehearsal is that it turns into a second wargaming process because the initial wargaming was inadequate or incomplete. This is not a time to be making key staff coordination or changing the plan.

BSOs should address communications problem areas at the maneuver rehearsal. Recommend practical and common-sense advice to the maneuver commander. Address both FM and MSRT communications. Discuss details of the retransmission and antijam plans specifically reference fire support communications if possible.

Reconnaisance and surveillance (R&S) assets such as scouts and other observer teams frequently conduct separate rehearsals run by the S2. These are critical assets requiring detailed instructions and redundant communications. The BSO or his representative should also attend this rehearsal, ensuring various teams fully understand the instructions and contingencies.

Figures A-1 through A-9 give examples of the planning process.

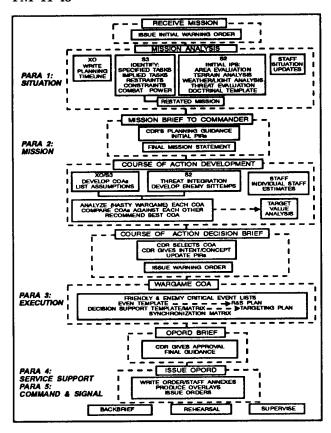


Figure A-1. Maneuver orders process.

WARGAME BRIEFING (for each COA)						
MISSION	BSO, S3					
Updated terrain, weather, and enemy situation	BSO, S2					
Enemy courses of action wargamed	BSO, S2					
The course of action wargamed	BSO, S3					
Assumptions	BSO, S3					
Wargame techniques used (belt, box, avenue)	BSO, S3					
Critical events wargamed	BSO, S3					
Visualization of the entire operation (use synchronization matrix and COA worksheet along with COA statement and sketch)	BSO, S3					
-Each critical event						
- Actions one level down						
 Combat support and combat service support units needed for mission accomplishment 						
Possible enemy actions/reactions considered during wargaming	BSO, S2					

Figure A-2. Wargame outline.

WARGAME BRIEFING (for each COA)	
Results of the wargame	BSO, S3
- Modifications of the COA (if required)	
 Proposed task organization and organization for combat to support the COA 	
 Decision support template and decision support matrix (recommend NAIs, TAIs, HVTs, and HPTs) 	
- Priorities for combat and combat service support units	
- Estimated time required for the operation	
- Estimated enemy losses (provided by S1)	
- Estimated friendly losses (provided by S1)	
- Advantages of the COA	
- Disadvantages of the COA to include any accepted risk	
Staff Estimate (decision matrix)	BSO, ALL
Decision by XO on which COA to recommend	BSO, XO

Figure A-2. Wargame outline (cont).

COMMUNICATIONS PLANNING PROCESS GUIDE CORPS AND BELOW (MANEUVER UNIT ORIENTED)

ISSUE WARNING ORDER BEFORE ORDER IS RECEIVED TO SUBORDINATES:

- 1/3, 2/3 RULE COMM CHIEF
- SEN CHIEF
- WHERE AND WHAT TIME TO MEET TO DISCUSS NEW ORDER AND ITS IMPACT ON COMMUNICATIONS. (ABOUT 30 MIN AFTER ORDER IS RECEIVED AT MAIN OF). MAPPOARD SHOULD BE AVAILABLE.

DIV ORDER RECEIVED:

- GET GUIDANCE FROM XO ON STAFF PLANNING TIMELINES
- RECEIVE SIGNAL ANNEX AND COPY OF ORDER
 TRACE BASIC GRAPHICS WITH AT LEAST BOUNDARIES AND PHASE LINES.

ORDER/ANNEX INFORMATION TO BE GLEANED:

PLOCATIONS OF

-DTOC -DTAC

-NODE CENTERS -DIV RETRANS

- SPECIFIED AND IMPLIED
- ATTACHMENTS
- DETACHMENTS
- RESTRICTIONS
- CONSTRAINTS

INITIAL COMMUNICATIONS PLANNING

- ANALYZE TERRAIN
- POSITION OF C2 FACILITIES
- COORDINATION WITH: -XO/S2/S3/HHC CDR FOR TAC/TOC LOCATIONS -\$1/S4 FOR BSA LOCATIONS
 - -ADSO-NOTIFICATION/PROFILING
- RETRANS POSITIONING...TIME AND LOCATION STATED IN ORDER OUTSIDE COORDINATION WIADSO OR OTHER ADJACENT UNITS (PASSAGE OF LINESPRESERVE ROLL, CALL SIGN, PRECS)
- ANTIJAM PLAN
- SOLCNV
- BDE OP TEAMS/SCOUTS
- . WHO IS ON THE LEFT AND RIGHT

Figure A-3. Communications planning process guide, maneuver unit oriented.

COORDINATION WITH OTHER STAFF MEMBERS:

\$1/\$4

 LOCATION OF BSA MAINTENANCE PRIORITIES (SIGNAL EQUIPMENT)

ENEMY COMM ACTIVITIES, LOCATIONS, OBSTACLES, ARTILLERY ETC. IN RELATION TO C2 FACILITIES

USE OF SIGNAL ACTIVITIES OF DECEPTION OPERATIONS

LIGHT DATA FOR ANY NIGHT MOVES FOR RETRANS ANY BDE OPS, SCOUT OR OTHER ATTACHMENTS TALKING ON BDE O / I

C2 FACILITY LOCATIONS

PASSAGE OF LINES, COLLOCATION OF C2 FACILITIES HOW WILL RETRANS GET TO ITS SUPPORTING LOCATION

NO FIRE AREA AROUND RETRANS

ESTIMATE BRIEF TO COMMANDER:

- GENERAL TERRAIN ANALYZE
- COMM STATUS . IMPLIED AND SPECIFIED TASK
- RESTRICTIONS
- CONSTRAINTS
- ATTACHMENT/DETACHMENTS

*BOTTOM LINE: CAN WE SUPPORT THE MISSION WITH COMMUNICATIONS?

ORDERS ISSUE BRIEF TO SUBORDINATE COMMANDERS:

- LOCATION OF TAC CP, MAIN CP, AND RETRANS POSTED (INDICATE LOCATION OF EACH ON
- MAP)

 LIKELY AREAS OF COMMUNICATIONS PROBLEMS
- ANY RESTRICTIONS-RADIO LISTENING SILENCE ETC.
- ANTIJAM PLAN
- CHANGES TO SONVARIABLES (CHANGE EDITIONS, OPERATION TO CONTINUE PAST NEW CHANGE OVER PERIOD ETC.)

ISSUE INSTRUCTIONS TO SUBORDINATES AND COORDINATION WITH HIGHER:

RETRANS WARNING ORDER

· ANTIJAM PLAN

PROPOSED C2 LOCATIONS-CONTACT ADSO ABOUT JUMP LOCATIONS-WILL THEY PROFILE, RAU COVERAGE

POST ORDERS ISSUE:

OCHECK WITH FSO ON NO FIRE AREA AROUND RETRANS OCHECK WITH 53 ON CHANGES TO PLAN CHECK WITH CHEMO-IS RETRANS LOCATION ON HIS TERRAIN MANAGEMENT BOARD WHAT ATTACHMENTS HAVE BEEN ADDED THAT TALK ON BOE RETS-RESERVE COMPANY.

ADA OPS ETC. HOW WILL THEY TALK, WE BRIEF THEM ON: SOI, ANTIJAM, SECURE (GAN BE DONE AT REHERSAL SITE, MAINTE

Figure A-3. Communications planning process guide,

SIGNAL ANNEX										
OPORD 00-00		PREP OBJ ON-CRECON PERRAR		IBJ IRAFI	OBJ PORSHE		VOLICE/WAGIO		ORG	
RETRANS TM 1	REC	TRANS ST CMD 278142		O NGE	_			REC	ORG ONST EPLOY	
RETRANS TM 2	RC	TRANS AT AT 258158		O NGE	_		*			
NODE CENTER 10	10	NK 83186	2 <u>4</u>		_					
NODE CENTER 11	3	NK 35005		NK 1959	CHANG	E	→			
REMOTE FAU 14		IN SERVE NC 10		IO NGE			→	,	·	
PITAC	1	NK 80274	% NK 257215 % NK 364153		NK 364153		NO CHANGE	REO	RECORG RECONST REDEPLOY	
RTOC	1	NK 80274	NO CHANGE		% NK 305156		NO CHANGE	RECONST REDEPLOY		
COORDINATING INSTRUCTIONS: RETRANS RFSE NET, BEGINNING PHASE 2 1/3 AND 2/3 WILL FORM RETRANS TEAMS TO SPT CAT MISSION REGIT RETRANS TM 1 WILL BACK UP 1/3 OR 2/3 AS REQUIRED.										
SOC: 2/3	SOC: 2/3, 1/3, 4/3, SPT/3 SIGN: WARDEN C/SIGN: MOTION							TION		
ANTIJAM PLAN										
RADIO NE	:T	FREQU	ENCY	ALT	FREQ 1	AL	T FREQ 2	ALT F	REQ 3	
COMMAN	IAND CMD		0	SPARE 3		SPARE 7				
OPS/INTE	1	0/	ı	SPA	VRE 4	SPARE 8				
FIRE SUPP	ORT	FSE	FSE		VPME 5	SPARE 9				
ADMINALO	G	ĄL		SP/	VRE 6	s	PARE 10			
SOI INDEX NUMBER: EDITION "B" IN EFFECT										

Figure A-4. Signal annex/matrix.

SIGNAL ANNEXMATRIX									
FRAGO 00-00	Recon/C-Recon	M	тс	Trans. Pu	ure	Defense	I		
RETRANS TMS 1 AND 2	In Reserve at RTAC % Provide Retrans CMD, O/I			NO CHANGE					
NODE CENTER 10	NK 621177			NO CHAN	GΕ		T		
NODE CENTER 11	NK 335005			AO CHAN	GE		T		
REMOTE RAU 10	NK 573107			NO CHAN	IGE		•		
REMOTE RAU 11 RELAY Z11	NJ 575025			NO CHANGE		-	-		
RTOC	NK 548156	% Survival NK 548164		<u>N</u>	00	HANGE			
RTAC	NK 534093	LD 0600 NK 508083		NO C		HANGE			
COORDINITING INSTRUCTIONS: REGT RETRANS PRIORITY TO 2/3 ACR TO SUPPORT C2 OF ECONOMY OF FORCE, SOI CHANGE AT 1700(L) FAST BREAK WILL OCCUR 1 HOUR PRIOR TO LD.								a TO	
SOC: 2/	3, 4/3, SPT/3	}		SIGN: WA	RD	EN C/SIGN	ı: K	NGPI	Z
	antijam plan								İ
RADIO NE	T FREQU	ENCY	ALT	FREQ 1	AL:	T FREQ 2	AL	FRE	Q 3
СОММА	ND CMI)	SP	SPARE 3		SPARE 7			
OPS/INT	EL O/I		SPARE 4		ş	SPARE 8			
FIRE SUPP	ORT FSE	: s		ARE 5	ş	SPARE 9			
ADMINAL	DG A/L		SP	ARE 6	5	SPARE 10			
	SOI INDEX NUMBER: EDITION "A" IN EFFECT								

Figure A-4. Signal annex/matrix (cont).

	ANNEX K, Signal, to 19TH BDE FRAGO 00-00-00
. SITUATION:	FINGO 00-00-00
. Enemy:	SEE CURRENT INTSUM
. Friendly:	SEE BASIC FRAGO
. Missión: _	IOM COMMUNICATIONS IN SUPPORT OF 19TH BOE TASK
	ONS TO SEIZE OBJECTIVES JALIBAH (RED) AND TALLIL
GREEN) EXECUTION	
. Concept of	Operations: RETRANS AND RELAYTEAMS WILL PROMOE PRIMARY (* 3 CY FOR THE BDE CMD NET AND THE FIRE SUPPORT NET.
	Bubordinale Units: O. OPCON IEA RETRANS TEAM WITH VEHICULAR RETRANS SYSTEM AND
	E SIGNAL OFFICER NUT 161200 APR 94.
OF THE	OPCON IEA RETRANS TEAM WITH VEHICULAR RETRANS SYSTEM AND
	F SIGNAL OFFICER NIT 161200 APR 94
3) CDR 0-4La)	OPCON IEA RETRANS TEAM WITH VEHICULAR RETRANS SYSTEM AND
THI GPS TO BO	E SIGNAL OFFICER NLT 161200 APR 94, k.) OPCON 2EA TWO MAN TEAM
ACH WITH MPR	COMPLETE WITH SINGARS TO THE BOE SIGNAL OFFICER NLT 61200.
4) COR HHC 19	BDE, OPCON BDE CDR. DRIVER WITH VEHICLE AND THE 53. DRIVER WIT
	BDE SIGNAL OFFICER NLT 161200 APR 94.
	Instructions; FREQUENCIES, PASSWORD AND CHALLENGES CHANGE AT 1700 HOUR
LOCAL) DAILY	
2) ANTLIAM PL	AN - NO CHANGE
SERVICE /	AND SUPPORT: SEE LOGISTICS ANNEX
.Command:	a signal
NTC 501 00-	OO, EDITION B IN EFFECT:
. Signal:	
1) <u>FHASE I MA</u>	IN: NK 1977:18, TAC: NK 1982:16
2) <u>FAH5E II MAI</u>	N NK 187218, TAC: NK 351086 RETRANS: NK 275086
3) <u>PAHSE III MA</u>	IN NK 429157, TAC: NK 504085 RETRANS; NK 445118
A PAUGE IV LI	AIN NK 429157, TAC: NK 5040513 RETRANS: NK 443118

Figure A-5. Annex K, fragmentary order (FRAGO).

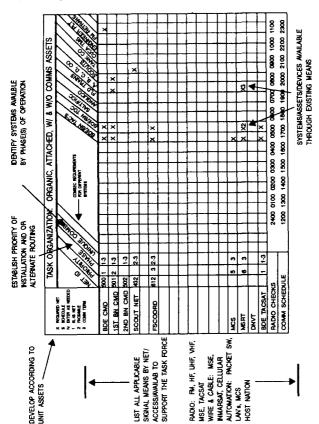


Figure A-6. Asset tracking system matrix.

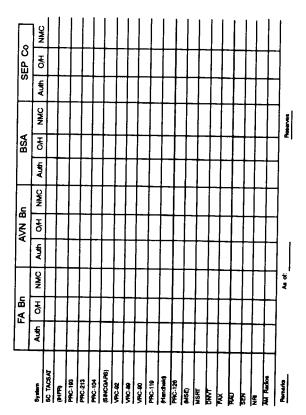


Figure A-7. Communications status.

	co	DMMAND	ANI	SIGNAL	1_				
COMMAND:				<i>-</i>	_				
001111111111111111111111111111111111111		$\overline{}$			ĒΫ	ENT TH	AT N	WILL	T
COMMAND ELEMENT	LOCATION	i ALT	LOC	CATION		CAU	ISE		OIC
CMD		+-			۲	ISPLAC	ENIE	N I	_
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3,100200101	1 OF OMB								<u></u>
SUCCESSION	N OF CMD		S	PECIAL:					
Signal:									
l									
[<u>.</u> .									
AntiJam Plan	T 8 11:11								
Event	Radio Net	Frequen	व्य	Aft Freq	-1/	Alt Fre	<u>q</u> 2	Alt	Freq 3
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			十		+			_	
SOI INDEX	NUMBER:		_	DTG:	_				

Figure A-8. Communications status worksheet.

Vehicle/Generators	Mission Brief
□ PMCS □ Fuel □ Camouflage Nets □ Load Plan Checked/Verified C&E	Map/Graphics Enemy/Friendly situation Mission Route Operational Time Medical Support Decon Link Up Points
□ Radio Check w/PRM-34 □ OE-254/RC-292 Complete □ Radio Retrans Both Ways	Resupply Destruction Procedures Recall Procedures
Personnel	<u>Freqs</u>
Food/Water Weapons: Cleaned Ammo Iest Fired/Zeroed	☐ Antijam Plan ☐ All Freqs Tested ☐ COMSEC
NBC:	
Complete/Serviceable Suit Injectors and M258 Kits Extra Suits Pretreatment Pills M256 Kit M8/9 Paper	

Figure A-9. Retransmission team checklist.